

WHAT IS CLAIMED IS:

1. A charge discharge control circuit, comprising:
a detecting circuit for monitoring a state of a secondary battery,
a delay circuit for generating a delay time in response to an output
from the detecting circuit, a switch control circuit for controlling
a switch circuit in response to outputs from the detecting circuit
and the delay circuit, and
a circuit for switching a state of the charge discharge control
circuit to any one of a normal application state in which charging
and discharging of the secondary battery are controlled, a charging
and discharging prohibition state in which the charging and
discharging of the secondary battery are forcibly prohibited, and
a test state in which characteristics of the charge and discharging
control circuit are evaluated, in accordance to receiving a signal
from the detecting circuit in response to a voltage of the secondary
battery.

2. A charge discharge control circuit according to claim 1,
wherein the charging and discharging prohibition state is
accomplished by means of that the switch control circuit controls
the switch circuit to turn OFF in response to a signal from the
detecting circuit.

3. A charge discharge control circuit according to claim 1, wherein the delay circuit comprises an oscillation circuit and an acceleration means, the acceleration means accelerating the oscillation circuit to increase oscillation cycle in the test state.

4. A charge discharge control circuit according to claim 3, wherein the charge discharge control circuit further comprises a fuse and the delay circuit comprises a counter circuit, a signal from the oscillation circuit being outputted to the switch control circuit through the counter circuit when the fuse is in the disconnection state in the test state.

5. A charging type power supply device, comprising:
a charge discharge control circuit including a detecting circuit for monitoring a state of a secondary battery, a delay circuit for generating a delay time in response to an output from the detecting circuit, a switch control circuit for controlling a switch circuit in response to outputs from the detecting circuit and the delay circuit, and a circuit for switching a state of the charge discharge control circuit to any one of a normal application state in which charging and discharging of the secondary battery are controlled, a charging and discharging prohibition state in which the charging and discharging of the secondary battery are forcibly prohibited,

and a test state in which characteristics of the charge and discharging control circuit are evaluated, in accordance to receiving a signal from the detecting circuit in response to a voltage of the secondary battery, and
an external power supply terminal,
wherein the secondary battery and the switch circuit are connected in series with the external power supply terminal, and the secondary battery and the charge discharge control circuit are connected with parallel to control the switch circuit.

6. A charging type power supply device according to claim 5, wherein the charging and discharging prohibition state is accomplished by means of that the switch control circuit controls the switch circuit to turn OFF in response to a signal from the detecting circuit.

7. A charging type power supply device according to claim 5, wherein the delay circuit comprises an oscillation circuit and an acceleration means, the acceleration means accelerating the oscillation circuit to increase oscillation cycle in the test state.

8. A charging type power supply device according to claim 7, wherein the charge discharge control circuit further comprises a fuse and the delay circuit comprises a counter circuit, a signal from the oscillation circuit being outputted to the switch control circuit through the counter circuit when the fuse is in the disconnection state in the test state.